

Rupert Ursin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6894657/publications.pdf>

Version: 2024-02-01

97
papers

10,257
citations

61984

43
h-index

66911

78
g-index

98
all docs

98
docs citations

98
times ranked

5658
citing authors

#	ARTICLE	IF	CITATIONS
1	Certifying position-momentum entanglement at telecommunication wavelengths. <i>Physica Scripta</i> , 2022, 97, 015101.	2.5	6
2	Experimental implementation of secure anonymous protocols on an eight-user quantum key distribution network. <i>Npj Quantum Information</i> , 2022, 8, .	6.7	11
3	Remotely Establishing Polarization Entanglement Over Noisy Polarization Channels. <i>Physical Review Applied</i> , 2022, 17, .	3.8	10
4	Scalable Authentication and Optimal Flooding in a Quantum Network. <i>PRX Quantum</i> , 2022, 3, .	9.2	6
5	Experimentally optimizing QKD rates via nonlocal dispersion compensation. , 2021, , .		0
6	Multiplexed entanglement-based quantum cryptography: concept and implementations. , 2021, , .		0
7	Strategies for achieving high key rates in satellite-based QKD. <i>Npj Quantum Information</i> , 2021, 7, .	6.7	29
8	Experimentally optimizing QKD rates via nonlocal dispersion compensation. <i>Quantum Science and Technology</i> , 2021, 6, 025017.	5.8	13
9	Quantum technologies in space. <i>Experimental Astronomy</i> , 2021, 51, 1677-1694.	3.7	23
10	Experimental Single-Copy Entanglement Distillation. <i>Physical Review Letters</i> , 2021, 127, 040506.	7.8	44
11	Model for optimizing quantum key distribution with continuous-wave pumped entangled-photon sources. <i>Physical Review A</i> , 2021, 104, .	2.5	32
12	Protocols Beyond Just QKD on an Eight-User Quantum Network. , 2021, , .		0
13	A low-noise single-photon detector for long-distance free-space quantum communication. <i>EPJ Quantum Technology</i> , 2021, 8, .	6.3	4
14	Experimental high-rate multiplexed quantum communication. , 2021, , .		0
15	Temporal distinguishability in Hong-Ou-Mandel interference for harnessing high-dimensional frequency entanglement. <i>Npj Quantum Information</i> , 2021, 7, .	6.7	18
16	Experimental Space-Division Multiplexed Polarization-Entanglement Distribution through 12 Paths of a Multicore Fiber. <i>PRX Quantum</i> , 2021, 2, .	9.2	7
17	A trusted node-free eight-user metropolitan quantum communication network. <i>Science Advances</i> , 2020, 6, .	10.3	148
18	Verification of high-dimensional entanglement generated in quantum interference. <i>Physical Review A</i> , 2020, 101, .	2.5	24

#	ARTICLE	IF	CITATIONS
19	Passively stable distribution of polarisation entanglement over 192 km of deployed optical fibre. Npj Quantum Information, 2020, 6, .	6.7	43
20	A trusted-node-free eight-user metropolitan quantum communication network. , 2020, , .		3
21	A No-History, Low Latency Photonic Quantum Random Bit Generator for Use in a Loophole Free Bell Tests and General Applications. Quantum Science and Technology, 2020, , 65-83.	2.6	0
22	Hong-Ou-Mandel interferometry on a biphoton beat note. Npj Quantum Information, 2019, 5, .	6.7	50
23	Entanglement-enhanced optical gyroscope. New Journal of Physics, 2019, 21, 053010.	2.9	39
24	Entanglement distribution over a 96-km-long submarine optical fiber. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6684-6688.	7.1	85
25	An Entanglement-Based Wavelength Multiplexed Quantum Communication Network. , 2019, , .		1
26	Overcoming Noise in Entanglement Distribution. Physical Review X, 2019, 9, .	8.9	114
27	Hong-Ou-Mandel Interferometry on a biphoton beat note. , 2019, , .		0
28	Satellite-Relayed Intercontinental Quantum Network. Physical Review Letters, 2018, 120, 030501.	7.8	499
29	Polarization Entanglement by Time-Reversed Hong-Ou-Mandel Interference. Physical Review Letters, 2018, 121, 200502.	7.8	35
30	Nanobob: a CubeSat mission concept for quantum communication experiments in an uplink configuration. EPJ Quantum Technology, 2018, 5, .	6.3	58
31	An entanglement-based wavelength-multiplexed quantum communication network. Nature, 2018, 564, 225-228.	27.8	224
32	Space QUEST mission proposal: experimentally testing decoherence due to gravity. New Journal of Physics, 2018, 20, 063016.	2.9	36
33	Comparative study of afterpulsing behavior and models in single photon counting avalanche photo diode detectors. Scientific Reports, 2018, 8, 5076.	3.3	34
34	Q3Sat: quantum communications uplink to a 3U CubeSatâ€™ feasibility & design. EPJ Quantum Technology, 2018, 5, .	6.3	32
35	Cosmic Bell Test Using Random Measurement Settings from High-Redshift Quasars. Physical Review Letters, 2018, 121, 080403.	7.8	89
36	Cosmic Bell Test: Measurement Settings from Milky Way Stars. Physical Review Letters, 2017, 118, 060401.	7.8	111

#	ARTICLE	IF	CITATIONS
37	Experimental test of photonic entanglement in accelerated reference frames. Nature Communications, 2017, 8, 15304.	12.8	29
38	Distribution of high-dimensional entanglement via an intra-city free-space link. Nature Communications, 2017, 8, 15971.	12.8	123
39	Quantum communications uplink to a 3U CubeSat. , 2017, , .		3
40	A significant-loophole-free test of Bell's theorem with entangled photons. , 2017, , .		0
41	Quantum Communication with Photons. , 2016, , 455-482.		32
42	Macroscopic Quantum Resonators (MAQRO): 2015 update. EPJ Quantum Technology, 2016, 3, .	6.3	77
43	Twisted light transmission over 143 km. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13648-13653.	7.1	276
44	Attacks on quantum key distribution protocols that employ non-ITS authentication. Quantum Information Processing, 2016, 15, 327-362.	2.2	16
45	Development of a space-proof polarization-entangled photon source. , 2016, , .		5
46	A Simple and Robust Method for Estimating Afterpulsing in Single Photon Detectors. Journal of Lightwave Technology, 2015, 33, 3098-3107.	4.6	31
47	Significant-Loophole-Free Test of Bell's Theorem with Entangled Photons. Physical Review Letters, 2015, 115, 250401.	7.8	932
48	An On-Demand Optical Quantum Random Number Generator with In-Future Action and Ultra-Fast Response. Scientific Reports, 2015, 5, 10214.	3.3	22
49	Teleportation of entanglement over 143 km. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14202-14205.	7.1	56
50	Quantum estimation of the Schwarzschild spacetime parameters of the Earth. Physical Review D, 2014, 90, .	4.7	53
51	Efficient heralding of polarization-entangled photons from type-0 and type-II spontaneous parametric downconversion in periodically poled KTiOPO ₄ . Journal of the Optical Society of America B: Optical Physics, 2014, 31, 2068.	2.1	54
52	Crossed-crystal scheme for femtosecond-pulsed entangled photon generation in periodically poled potassium titanyl phosphate. Physical Review A, 2014, 89, .	2.5	8
53	On the equivalence of the Clauser-Horne and Eberhard inequality based tests. Physica Scripta, 2014, T163, 014019.	2.5	18
54	143 km free-space quantum teleportation. , 2014, , .		1

#	ARTICLE	IF	CITATIONS
55	Communication with spatially modulated light through turbulent air across Vienna. <i>New Journal of Physics</i> , 2014, 16, 113028.	2.9	405
56	Bell-inequality violation with entangled photons, free of the coincidence-time loophole. <i>Physical Review A</i> , 2014, 90, .	2.5	36
57	Sharing quantum secrets. <i>Nature</i> , 2013, 501, 37-38.	27.8	8
58	Quantum erasure with causally disconnected choice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 1221-1226.	7.1	74
59	Bell violation using entangled photons without the fair-sampling assumption. <i>Nature</i> , 2013, 497, 227-230.	27.8	448
60	Characterization of a Commercially Available Large Area, High Detection Efficiency Single-Photon Avalanche Diode. <i>Journal of Lightwave Technology</i> , 2013, 31, 3591-3596.	4.6	38
61	Highly efficient heralding of entangled single photons. <i>Optics Express</i> , 2013, 21, 6707.	3.4	56
62	Quantum optics experiments using the International Space Station: a proposal. <i>New Journal of Physics</i> , 2013, 15, 043008.	2.9	55
63	Loophole-free Einstein-Podolsky-Rosen experiment via quantum steering. <i>New Journal of Physics</i> , 2012, 14, 053030.	2.9	206
64	A high-brightness source of polarization-entangled photons optimized for applications in free space. <i>Optics Express</i> , 2012, 20, 9640.	3.4	79
65	Experimental quantum teleportation over a high-loss free-space channel. <i>Optics Express</i> , 2012, 20, 23126.	3.4	18
66	Impact of Turbulence in Long Range Quantum and Classical Communications. <i>Physical Review Letters</i> , 2012, 109, 200502.	7.8	75
67	Quantum teleportation over 143 kilometres using active feed-forward. <i>Nature</i> , 2012, 489, 269-273.	27.8	490
68	Experimental delayed-choice entanglement swapping. <i>Nature Physics</i> , 2012, 8, 479-484.	16.7	171
69	Fast optical source for quantum key distribution based on semiconductor optical amplifiers. <i>Optics Express</i> , 2011, 19, 3825.	3.4	11
70	Active and passive optical sources for QKD. , 2011, , .		0
71	Violation of local realism with freedom of choice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 19708-19713.	7.1	196
72	Performing high-quality multi-photon experiments with parametric down-conversion. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 114008.	1.5	8

#	ARTICLE	IF	CITATIONS
73	Quantum teleportation and entanglement swapping with linear optics logic gates. New Journal of Physics, 2009, 11, 033008.	2.9	31
74	RESPONSE TO "VULNERABILITY OF 'A NOVEL PROTOCOL-AUTHENTICATION ALGORITHM RULING OUT A MAN-IN-THE-MIDDLE ATTACK IN QUANTUM CRYPTOGRAPHY'". International Journal of Quantum Information, 2009, 07, 1401-1407.	1.1	7
75	High-fidelity transmission of entanglement over a high-loss free-space channel. Nature Physics, 2009, 5, 389-392.	16.7	165
76	Feasibility of 300km quantum key distribution with entangled states. New Journal of Physics, 2009, 11, 085002.	2.9	72
77	Space-quest, experiments with quantum entanglement in space. Europhysics News, 2009, 40, 26-29.	0.3	77
78	Space-QUEST: quantum physics and quantum communication in space. , 2009, , .		3
79	Quantum communications at ESA: Towards a space experiment on the ISS. Acta Astronautica, 2008, 63, 165-178.	3.2	63
80	Experimental verification of the feasibility of a quantum channel between space and Earth. New Journal of Physics, 2008, 10, 033038.	2.9	177
81	EXPERIMENTAL ANALYSIS OF A SIMPLE LINEAR OPTICS PHASE GATE. International Journal of Quantum Information, 2007, 05, 235-240.	1.1	0
82	Experimental Demonstration of Free-Space Decoy-State Quantum Key Distribution over 144km. Physical Review Letters, 2007, 98, 010504.	7.8	589
83	Entanglement-based quantum communication over 144km. Nature Physics, 2007, 3, 481-486.	16.7	866
84	Applications of quantum communication protocols in real world scenarios toward space. Elektrotechnik Und Informationstechnik, 2007, 124, 149-153.	1.1	1
85	A NOVEL PROTOCOL-AUTHENTICATION ALGORITHM RULING OUT A MAN-IN-THE MIDDLE ATTACK IN QUANTUM CRYPTOGRAPHY. International Journal of Quantum Information, 2005, 03, 225-231.	1.1	22
86	Linear Optics Controlled-Phase Gate Made Simple. Physical Review Letters, 2005, 95, 210505.	7.8	244
87	Experimental Analysis of a Four-Qubit Photon Cluster State. Physical Review Letters, 2005, 95, 210502.	7.8	238
88	Distributing entanglement and single photons through an intra-city, free-space quantum channel. Optics Express, 2005, 13, 202.	3.4	112
89	Experimental Quantum Coin Tossing. Physical Review Letters, 2005, 94, 040501.	7.8	113
90	Space-to-ground quantum communication using an optical ground station: a feasibility study. , 2004, 5551, 113.		16

#	ARTICLE	IF	CITATIONS
91	De Broglie wavelength of a non-local four-photon state. Nature, 2004, 429, 158-161.	27.8	463
92	Quantum teleportation across the Danube. Nature, 2004, 430, 849-849.	27.8	261
93	Practical quantum key distribution with polarization entangled photons. Optics Express, 2004, 12, 3865.	3.4	178
94	Experimental entanglement purification of arbitrary unknown states. Nature, 2003, 423, 417-422.	27.8	423
95	Long-Distance Free-Space Distribution of Quantum Entanglement. Science, 2003, 301, 621-623.	12.6	177
96	Quantum key distribution. , 0, , 305-327.		0
97	Experimental wavelength-multiplexed entanglement-based quantum cryptography. Quantum Science and Technology, 0, , .	5.8	21